



REVOCATION OF PRIOR POWERS OF ATTORNEY APPOINTMENT OF NEW POWERS OF ATTORNEY AND

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Applicant/Patent Owner: SIEMENS VDO AUTOMOTIVE CORPORATION

Application No.: 10/642,424

Filing Date: 8/12/2003

Publication No.: 2004-0228094

Publication Date: 11/18/2004

Patent No.: 6987670

Issue Date: 1/17/2006

Entitled: Dual Power Module Power System Architecture

Siemens VDO Automotive Corporation, a Delaware corporation, as assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment averred per the attached Statement Under 37 CFR 3.73(b), hereby:

- a) revokes all previous powers of attorney given in the above-identified application.
- b) appoints all Practitioners associated with the Customer Number: 028524 as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.
- c) requests change the correspondence address for the above-identified application to the address associated with the above-mentioned Customer Number.

19 July 2007

Laura M. Slenzak

Assistant Secretary for Intellectual Property Matters Siemens VDO Automotive Corporation



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Application No.: 10/642,424 Filing Date: 8/12/2003

Publication No.: 2004-0228094 Publication Date: 11/18/2004

Patent No.: 6987670 Issue Date: 1/17/2006

Entitled: Dual Power Module Power System Architecture

Siemens VDO Automotive Corporation, a Delaware corporation, states that it is: the assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 019077, Frame 0840, for which a copy thereof is attached.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was already submitted for recordation pursuant to 37 CFR 3.11.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

19 July 2007

Laura M. Stenzak

Assistant Secretary for Intellectual Property Matters

Siemens VDO Automotive Corporation





United States Patent and Trademark Office

Patent Assignment Details NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

Reel/Frame: 019077/0840 Pages: 7 Recorded: 3/28/2007

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1	Patent #: Title: SWIT	<u>5402059</u> CHING POWER SU				8193587 Filing Dt:	2/8/19
2	Patent #: Title: FAUL	<u>5469351</u> T ISOLATION IN A				8270967 Filing Dt:	7/5/19
3	Patent #: Title: THRE	<u>5552977</u> E PHASE INVERTE				8493221 Filing Dt:	6/20/19 RATION
4	Patent #: Title: INDL	5627446 ICTION MOTOR CO	Issue Dt:		Application #:	8498163 Filing Dt:	7/5/19
5	Patent #: Title: MAC	5619435 HINE	Issue Dt:	4/8/1997	Application #:	8558950 Filing Dt:	11/13/19
6	Patent #: Title: INDU	5739664 ICTION MOTOR DI			Application #:	8596846 Filing Dt:	2/5/19
7 .	Patent #: Title: INDL	<u>5754026</u> OCTION MOTOR CO	Issue Dt:		Application #:	8825986 Filing Dt:	4/4/19
8	Patent #: Title: BAC	<u>5821720</u> (LASH ELIMINATIO			Application #:	8846442 Filing Dt:	4/30/19
9	Patent #: Title: TOR	<u>5994859</u> SIONAL OSCILLAT		· · · · · ·	Application #:	8848206 Filing Dt:	4/30/19
10	Patent #: Title: VIBR	6072297 ATION DETECTIO		*	•	8926415 Filing Dt:	9/9/19
11	Patent #: Title: VOL1	6047787 FAGE CONTROL MI			Application #: R CONTROL SYSTEM	9017934 Filing Dt :	2/3/19
12	Patent #: Title: POLE	<u>5977679</u> -PHASE MODULAT		•	Application #: N INDUCTION MACH	9034946 Filing Dt: IINE	3/5/19
13	Patent #: Title: MET	5905349 HOD OF CONTROL	Issue Dt:		Application #: IN AN ELECTRIC V	9064237 Filing Dt: EHICLE	4/23/19
14	Patent #: Title: ROTO	<u>5965967</u> OR FOR AN ELECT	Issue Dt:		Application #:	9110353 Filing Dt:	7/6/19
15	Patent #: Title: !NCF	6246343 EMENT ENCODER	Issue Dt:		Application #:	9263303 Filing Dt:	3/5/19
16	Patent #: Title: VEHI	6122588 CLE SPEED CONT	Issue Dt: ROL WITH CONT		Application #:	9420465 Filing Dt :	10/19/19
17	Patent #: Title: COU	6307275 PLED TO AN INDU	Issue Dt: STRIAL TURBO E		Application #:	9495443 Filing Dt:	1/31/20
18	Patent #:	6377019	Issue Dt:	4/22/2002	Application #:	9499366 Filing Dt:	2/10/20



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United States Patent and Trademark Office

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Title: SERIES REGENERATIVE BRAKING TORQUE CONTROL SYSTEMS AND METHODS

Title: INTEGRATED TRACTION INVERTER MODULE AND BI-DIRECTIONAL DC/DC CONVERTER

12/17/2002 Application #: 9683172 Filing Dt:

10/15/2002 Application #: 9683176 Filing Dt:

11/28/2001

11/29/2001

Issue Dt:

Issue Dt:

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6465977





Publication #: <u>US20040095786</u>

United States Patent and Trademark Office

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	Title:	SYSTEM AND METHOD	FOR CONTROLL	ING TORQUE IN	AN ELECTRICAL MA	ACHINE	
36	Patent #:	6630809	Issue Dt:	10/7/2003	Application #:	9683180 Filing Dt:	: 11/29/20
	Publication #:	US20030098665	Pub Dt:	5/29/2003	••		, •
		SYSTEM AND METHOD	FOR INDUCTION	N MOTOR CONTR	ROL		
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38	Patent #:	6452352	Issue Dt:	9/17/2002	Application #:	9705236 Filing Dt:	11/2/200
	Title:	CURRENT GENERATING	SYSTEM				
39	Patent #:	<u>6445095</u>	Issue Dt:	9/3/2002	Application #:	9758871 Filing Dt	1/11/20
	Publication #:	US20020089242	Pub Dt:	7/11/2002			
	Title:	ELECTRIC MACHINE W	ITH LAMINATED	COOLING RING	S		
40	Patent #:	6636429	Issue Dt:	10/21/2003	Application #:	9957001 Filing Dt	9/20/20
	Publication #:	US20020126465	Pub Dt:	9/12/2002		•	
	Title:						
41	Patent #:	6793502	Issue Dt:	9/21/2004	Application #:	9957047 Filing Dt	9/20/20
		US20020111050	Pub Dt:	8/15/2002		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,20,20
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42	Patent #:		Issue Dt:		Application #:	9957568 Filing Dt	9/20/20
		US20020118560	Pub Dt:	8/29/2002			
	iitie:	SUBSTRATE-LEVEL DC	BUS DESIGN TO	NEDUCE MODE	ILE INDUCTANCE		
43	Patent #:	<u>6707270</u>	Issue Dt:	3/16/2004	Application #:	10010307 Filing Dt	11/13/20
		US20030090226	Pub Dt:	5/15/2003			
	Title:	SYSTEM AND METHOD	FOR INDUCTION	N MOTOR CONT	ROL		
44	Patent #:	7012810	Issue Dt:	3/14/2006	Application #:	10109555 Filing Dt	3/27/20
	Publication #:	US20020167828	Pub Dt:	11/14/2002			
	Title:	LEADFRAME-BASED MO	ODULE DC BUS (DESIGN TO REDI	UCE MODULE INDU	CTANCE	
45	Patent #:	6919650	Issue Dt:	7/19/2005	Application #:	10159603 Filing Dt	: 5/31/20
		US20030222507	Pub Dt:	12/4/2003			. 0,0-,20
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46	Patent #:		Issue Dt:	3/2/2004 2/13/2003	Application #:	10208251 Filing Dt	: 7/29/20
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47	Patent #:		Issue Dt:		Application #:	10293911 Filing Dt	: 11/12/20
	Publication #:	US20040090205	Pub Dt:	5/13/2004			
	Title:	SYSTEMS AND METHO	DS FOR ELECTRI	C MOTOR CONT	ROL		
48	Patent #:	6778411	Issue Dt:	8/17/2004	Application #:	10298473 Filing Dt	: 11/18/20
_		11520040095786	Pub Dt	5/20/2004	• • • • • • • • • • • • • • • • • • • •		• • •

Pub Dt:

Title: STARTUP APPARATUS AND METHOD FOR POWER CONVERTERS

5/20/2004





Publication #: <u>US20040033729</u>

United States Patent and Trademark Office

Patent Assignment Details

NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

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Pub Dt:

Title: THREE-PHASE CONNECTOR FOR ELECTRIC VEHICLE DRIVETRAIN

2/19/2004



Patent Assignment Details

NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

Reel/Frame: 019077/0840 Pages: Recorded: 3/28/2007 Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). Total properties: 104 62 Issue Dt: Patent #: 6927988 8/9/2005 Application #: 10447708 Filing Dt: 5/28/2003 Publication #: US20040034508 Pub Dt: 2/19/2004 Title: CONVERTER CIRCUITS 63 Patent #: 6936991 Issue Dt: 8/30/2005 Application #: 10449824 Filing Dt: 5/30/2003 Publication #: US20040036434 Pub Dt: 2/26/2004 Title: METHOD AND APPARATUS FOR MOTOR CONTROL 64 Issue Dt: 1/18/2005 Application #: 10453920 Filing Dt: Patent #: 6845020 6/2/2003 Pub Dt: Publication #: <u>US20040027839</u> 2/12/2004 Title: POWER CONVERTER SYSTEM 65 Patent #: 6867987 Issue Dt: 3/15/2005 Application #: 10461933 Filing Dt: 6/13/2003 Publication #: <u>US20040252531</u> Pub Dt: 12/16/2004 Title: MULTILEVEL INVERTER CONTROL SCHEMES 66 6900643 Issue Dt: 5/31/2005 Application #: 10637754 Filing Dt:: 8/6/2003 Publication #: <u>US20050030045</u> Pub Dt: 2/10/2005 Title: RIDE THROUGH IN ELECTRONIC POWER CONVERTERS 6/14/2005 Application #: 10642391 Filing Dt: 67 Issue Dt: Patent #: <u>6906404</u> 8/14/2003 Publication #: <u>US20040227231</u> Pub Dt: 11/18/2004 Title: POWER MODULE WITH VOLTAGE OVERSHOOT LIMITING 6987670 Issue Dt: 1/17/2006 Application #: 10642424 Filing Dt: 68 Patent #: 8/14/2003 Publication #: <u>US20040228094</u> Pub Dt: 11/18/2004 Title: DUAL POWER MODULE POWER SYSTEM ARCHITECTURE 69 Patent #: 7058755 Issue Dt: 6/6/2006 Application #: 10658124 Filing Dt: 9/9/2003. Publication #: US20050055496 Pub Dt: 3/10/2005 Title: EEPROM EMULATION IN FLASH MEMORY 70 9/9/2003 Patent #: NONE Issue Dt: Application #: 10658804 Filing Dt: Publication #: <u>US20060274561</u> Pub Dt: 12/7/2006 Title: Tri-level inverter 71 Patent #: NONE Issue Dt: Application #: 10664808 Filing Dt: 9/17/2003 Publication #: US20040230847 Pub Dt: 11/18/2004 Title: Power converter architecture employing at least one capacitor across a DC bus 72 3/28/2006 Application #: 10688834 Filing Dt: Patent #: <u>7019996</u> Issue Dt: 10/16/2003 Publication #: <u>US20050083714</u> Pub Dt: 4/21/2005 Title: POWER CONVERTER EMPLOYING A PLANAR TRANSFORMER Patent #: NONE **Issue Dt:** Application #: 10713552 Filing Dt: 11/14/2003 Publication #: <u>US20050105229</u> Pub Dt: 5/19/2005 Title: Two-level protection for uninterrupted power supply 74 Patent #: 6940735 Issue Dt: 9/6/2005 Application #: 10713767 Filing Dt: 11/14/2003 Publication #: <u>US20050105306</u> Pub Dt: 5/19/2005

Title: POWER CONVERTER SYSTEM



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Patent #: NONE

Publication #: <u>US20070097569</u>



United States Patent and Trademark Office

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Application #: 11262519 Filing Dt:

Application #: 11282301 Filing Dt:

10/27/2005

11/18/2005

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Recorded: 3/28/2007 Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). Total properties: 104 88 Patent #: 7046535 Issue Dt: 5/16/2006 Application #: 11003542 Filing Dt: 12/3/2004 Publication #: US20050152100 Pub Dt: 7/14/2005 Title: ARCHITECTURE FOR POWER MODULES SUCH AS POWER INVERTERS Patent #: NONE RQ Tesue Dt: Application #: 11010560 Filing Dt: 12/13/2004 Publication #: US20050152101 Pub Dt: 7/14/2005 Title: Architecture for power modules such as power inverters 90 Patent #: NONE Issue Dt: Application #: 11010561 Filing Dt: 12/13/2004 Publication #: US20050162875 **Pub Dt:** 7/28/2005 Title: Architecture for power modules such as power inverters 91 Patent #: NONE **Issue Dt:** Application #: 11010950 Filing Dt: 12/13/2004 Publication #: US20060007721 **Pub Dt:** 1/12/2006 Title: Architecture for power modules such as power inverters 92 Patent #: NONE Issue Dt: Application #: 11095035 Filing Dt: 3/30/2005 Publication #: <u>US20050253543</u> Pub Dt: 11/17/2005 Title: Method, apparatus and article for vibration compensation in electric drivetrains 93 Patent #: NONE Issue Dt: Application #: 11096236 Filing Dt: 3/30/2005 Publication #: US20050254273 Pub Dt: 11/17/2005 Title: Method, apparatus and article for bi-directional DC/DC power conversion Patent #: NONE Issue Dt: Application #: 11192321 Filing Dt: 94 7/28/2005 Publication #: US20060022541 Pub Dt: 2/2/2006 Title: Rotor hub and assembly for a permanent magnet power electric machine 95 Patent #: 7187558 Issue Dt: 3/6/2007 Application #: 11245723 Filing Dt: 10/6/2005 Publication #: <u>US20060028806</u> Pub Dt: 2/9/2006 Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE 96 Patent #: NONE Issue Dt: Application #: 11250180 Filing Dt: 10/12/2005 Publication #: US20070080655 **Pub Dt:** 4/12/2007 Title: Method, apparatus and article for detecting rotor position Patent #: NONE Issue Dt: Application #: 11255162 Filing Dt: 10/20/2005 Publication #: US20080152085 Pub Dt: 7/13/2006 Title: Power system method and apparatus

Publication #: <u>US20070114954</u> Pub Dt: 5/24/2007

Title: System and method of commonly controlling power converters

100 Patent #: <u>7193860</u> Issue Dt: 3/20/2007 Application #: 11292870 Filing Dt: 12/2/2005

5/3/2007

Publication #: <u>US20060082983</u> Pub Dt: 4/20/2006

Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE

Issue Dt:

Issue Dt:

Title: System and method of over voltage control for a power system

Pub Dt:





United States Patent and Trademark Office

Patent Assignment Details

NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

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3/28/2007

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Total properties: 104

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101 Patent #: NONE Issue Dt:

Application #: 11317658 Filing Dt: 12/22/2005

Publication #: <u>US20070147097</u>

Pub Dt:

6/28/2007

Patent #: NONE

Issue Dt:

Application #: 11318166 Filing Dt: 12/23/2005

Publication #: <u>US20060099463</u>

Pub Dt:

5/11/2006

Patent #: NONE

Issue Dt:

Title: Direct current/direct current converter for a fuel cell system

Application #: 11472486 Filing Dt:

6/20/2006

Publication #: <u>US20070012492</u>

Pub Dt:

1/18/2007

Title: Power generation system suitable for hybrid electric vehicles

Patent #: NONE Issue Dt:

Title: house keeping power supply

Application #: 11480311 Filing Dt:

6/29/2006

Publication #: <u>US20070016340</u>

1/18/2007 Pub Dt:

Title: Controller method, apparatus and article suitable for electric drive

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2400 EXECUTIVE HILLS BLVD. AUBURN HILLS, MICHIGAN 48326-2980

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Search Results as of: 07/19/2007 02:11 PM

If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 571-272-3350 v.2.0.1 Web interface läst modified: April 20, 2007 v.2.0.1